

## Product datasheet for **MC206261**

### Smpd2 (BC010978) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Smpd2 (BC010978) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Smpd2  
**Synonyms:** nSMase1, nSMase  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC010978  
 CCACGCGTCCGGTGGAAAGCCGAGCCGGGAACAAGGGAGGAACCTGTAGGCCGCGGTGCGGAGAACCACC  
 GAAGGACCTAAGAATCTGGAACAGTCCACCCGAGATTCTTCCAGGACTGCCGGCGCCTCGCGCAGCCA  
 GCCCGGATTTGAGCCGACCTTTCCGGGTGGAAGGACGGCCTTTGTCCAGTAACGCAGGAGTCCG  
 CCCCCACCCCAACCAGCTCGCTTCTGGGTGCGGCGCAGCGCAGGACAGGGCAATAAGCCTGTGCGCGC  
 AATCCGCTCGCGCCCTTGCTCCGAAGCACTCCAGCCATGAAGCTCACTTTTCTACGGCTGAGAGT  
 TTTCAATCTCACTGCTGGGACATCCCCTACCTGAGCAAACATAGGGCGGACCGCATGAAGCGCTTGGGA  
 GACTTTCTGAACTTGAAAACCTTTGATCTGGCTCTCTGGAGGAGGTGTGGAGTGAGCAGGACTTCCAGT  
 ACCTAAGGCAAAGGCTATCGCTCACCTATCCAGATGCACACTACTTCAAGCGGGATGATAGGCAGTGG  
 CCTCTGTGTGTTCTCAAACACCCAATCCAGGAAATCTTCCAGCATGTCTACAGTCTGAATGGTTACCC  
 TACATGTTCCATCATGGAGACTGGTTCTGTGGGAAGTCTGTGGGCTGCTGGTGTCCGCTAAGTGGAC  
 TGGTGCTCAATGCCTACGTGACTCATCTACATGCTGAGTACAGCCGACAGAAGGACATCTACTTTGCACA  
 CCGTGTGGCCCAAGCTTGGGAACTGGCCAGTTTATCCACCACACATCCAAGAATGCAGATGTGGTTCTA  
 TTGTGTGGAGACCTCAATATGCACCCCAAAGACCTGGGCTGCTGCCTGCTGAAAGAGTGGACAGGGCTCC  
 ATGATGCTTTCGTTGAGACTGAGGACTTTAAGGGCTCTGATGATGGCTGTACCATGGTACCCAAGAAGT  
 CTACGTCAGCCAGCAGGACCTGGGACCGTTTCCGCTGCTGATCCGGATTGATTACGTGCTTTACAAGGCA  
 GTCTCTGAGTTCACGCTGCTGTGAGACTCTGAAAACCACTACAGGCTGTGACCCTCACAGTGACAAGC  
 CCTTCTCTGATCACGAGGCCCTCATGGCTACTTTGATGTGAAGCACAGCCCCCTCAGGAAGACCCCTG  
 TACTGCCGTGGCCCACTGGAAAGTCCGATTTGATCAGCGTGCTAAGGGAGGCCAGGACAGAGCTGGGG  
 CTAGGCATAGCTAAAGCTCGCTGGTGGGCTGCATTCTCTGGCTATGTGATCGTTTTGGGGCTGTCCCTTC  
 TGGTGTGCTGTGTCTGGCTGCAGGAGAAGAGGCCAGGGAAGTGGCCATCATCCTCTGCATACCCAG  
 TGTGGGCTGGTGTGGTAGCAGGTGCAGTCTACCTCTCCACAAGCAGGAGGCCAAGGGCTTATGTCGG  
 GCCCAGGCTGAGATGCTGCACGTTCTGACAAGGAAACGGAGACCCAGGACCGAGGCTCAGAGCCTCACC  
 TAGCCTACTGCTGCAGCAGGAGGGGGACAGAGCTTAAGAGCTTAAACAATAAACTTGCTTGACACACTC  
 TAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** EcoRI-NotI



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<b>ACCN:</b>	BC010978
<b>Insert Size:</b>	1260 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">BC010978</a> , <a href="#">AAH10978</a>
<b>RefSeq Size:</b>	1631 bp
<b>RefSeq ORF:</b>	1260 bp
<b>Locus ID:</b>	20598
<b>Cytogenetics:</b>	10 B1
<b>Gene Summary:</b>	This gene encodes a protein with similarity to the human nSMase1 protein. In humans, the nSMase1 protein was initially identified as a sphingomyelinase based on sequence similarity between bacterial sphingomyelinases and a yeast protein. Subsequent studies showed that its biological function is less likely to be as a sphingomyelinase and instead as a lysophospholipase. [provided by RefSeq, Oct 2009]